

**Claims**

1. In combination with an implant site in the alveolar bone of a patient, the improvements which enable the growth of a tooth at said site, said improvements comprising, in combination with said site, implant means comprising genetic material assembled in vitro to cause a tooth to grow at said site.
2. A method for preparing an implant for placement at a selected implant site in the body of a patient to form an organ, comprising the steps of
- (a) selecting said implant site;
  - (b) preparing an implant adapted for placement at said site and including genetic material which causes the formation of an organ at said implant site.
3. In combination with an implant site in a patient, the improvements which enable the growth of an organ at said site, said improvements comprising, in combination with said site, implant means comprising genetic material assembled in vitro to cause an organ of grow at said site.
4. A method for producing ex vivo an organ to implant in the body of a patient, including the steps of
- (a) providing at least one cell;
  - (b) providing genetic material to activate the cell to grow an organ; and,
  - (c) combining said genetic material and said cell.
5. Apparatus for growing an organ to implant in the body of a patient, comprising in combination
- (a) at least one cell;
  - (b) genetic material; and,
  - (c) means for combining said cell and said genetic material to grow an organ.